

S7 operation update

Eric Dufresne, TRR group meeting, Jan. 23, 2007

- DW will be commissioning this run a new 7ID-C Huber 6-circle and a new control station will be added for 7ID-C next to the new 7ID-D workstation on the Wrightline wall. The Newport Kappa was moved out of the hutch already. He rotated also the first 7ID-C optical table to provide more length along the beam.
- EL and Mark Erdmann designed a new laser porthole to deliver the laser beam to 7ID-C. The new porthole has been installed today (see pictures). DW has procured an optical table for laser and x-ray optics for the 6-circle experiments.
- EL is working to repair the water pump on the laser amplifier. The repair should be completed this week.
- HG is building a new table for the 7ID-D KB mirror table for AMO experiments.
- We are also developing plans to bring AC in 7ID-C in the new year. Two new labyrinths will be opened on the roof of 7ID-C this shutdown.
- We plan to install also a new cable tray near 7ID-D (awaiting funding).
- DA is upgrading the 7ID-A mono to a 5-phase stepper motor on the Bragg angle theta. The servo motor would sometime cause a 400 Hz variation on the beam flux as measured by the group of Paul Evans. The upgrade may improve the beam stability.

7ID R&D

- EL and BA gave a talk at the ps-workgroup today Jan 23, 2007.
- EL is developing code to simulate data from time-resolved laser-pump x-ray probe experiments.
- JW and partners are developing a plan to complete the 7BM beamline for imaging of fuel sprays. ED and Mark Erdmann (AES) are working on a draft design of the beamline.
- BA hope to test the streak camera in the 7ID-D hutch with UV light to determine its resolution this shutdown.
- Several abstract were submitted by the S7 group to the SRI-2007 conference in Baton-Rouge.

Pictures from 7ID-C.



Newport Kappa diffractometer



New laser door for laser in 7ID-C